CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

M/s. Civil-Tech Consultants & Engineers, Bangalore. Certificate No.: TC-2377

Job No.: CTCE/BBMP/NE/W.No.14/Steel/2019-20

12.03.2020

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Nandhi Enterprises,** #1504, 4th C Main, 2nd Stage, Mahalakshmipuram, Bangalore.
* Name of work	:	Improvements to roads and drains Jodidara Narasimhaiah Layout (Gowdike hola) in Bagalagunte Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/412/2019-20 Dated : 10.03.2020
* Samples ID	:	10 mm Bar
Test Method as per	:	IS - 1786 : 2008 (RA-2016)
Date of Testing	:	12.03.2020
Report Issue Date	:	12.03.2020

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	514	555	13.15	O.K	O.K

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers, Bangalore

Note:

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M/s. Civil-Tech Consultants & Engineers

Authorised Signatory

Assistant Executive Engineer
T. Dasarahalli Sub Division
Bagalagunte, BBMP
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Job No.: CTCE/BBMP/NE/W.No.14/CSR-57/Cube/2019-20

11.04.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Nandhi Enterprises,** #1504, 4th C Main, 2nd Stage, Mahalakshmipuram, Bangalore.
* Name of the work	:	Improvements to roads and drains Jodidara Narasimhaiah Layout (Gowdike hola) in Bagalagunte Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/412/2019-20 Dated : 10.03.2020
* Sample ID	:	RCC Drain Bed Slab Concrete ✓
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	11.04.2020
Report Issue Date	:	11.04.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.03.2020	11.04.2020	8.159	501.5	22.29
2	14.03.2020	11.04.2020	8.219	512.9	22.80
3	14.03.2020	11.04.2020	8.320	535.9	23.82

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Job No.: CTCE/BBMP/NE/W.No.14/CSR-57/Cube/2019-20

11.04.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Agency	:	**M/s. Nandhi Enterprises,** #1504, 4th C Main, 2nd Stage, Mahalakshmipuram, Bangalore.
* Name of the work	:	Improvements to roads and drains Jodidara Narasimhaiah Layout (Gowdike hola) in Bagalagunte Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/412/2019-20 Dated : 10.03.2020
* Sample ID	:	RCC Drain Bed Slab Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	11.04.2020
Report Issue Date	:	11.04.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.03.2020	11.04.2020	8.107	514.5	22.87
2	14.03.2020	11.04.2020	8.159	528.7	23.50
3	14.03.2020	11.04.2020	8.285	539.8	23.99

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Job No.: CTCE/BBMP/NE/W.No.14/CSR-57/Cube/2019-20

13.04.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Nandhi Enterprises,** #1504, 4th C Main, 2nd Stage, Mahalakshmipuram, Bangalore.
* Name of the work	:	Improvements to roads and drains Jodidara Narasimhaiah Layout (Gowdike hola) in Bagalagunte Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/412/2019-20 Dated : 10.03.2020
* Sample ID	:	RCC Drain Side Wall Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	13.04.2020
Report Issue Date	:	13.04.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.03.2020	13.04.2020	8.093	478.9	21.28
2	16.03.2020	13.04.2020	8.118	504.5	22.42
3	16.03.2020	13.04.2020	8.215	519.6	23.09

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Nandhi Enterprises,** #1504, 4th C Main, 2nd Stage, Mahalakshmipuram, Bangalore.
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* Reference	:	BBMP/DZ/AEE/TDSD/PR/412/2019-20 Dated : 10.03.2020
* Sample ID	:	RCC Drain Side Wall Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	13.04.2020
Report Issue Date	:	13.04.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.03.2020	13.04.2020	8.227	504.5	22.42
2	16.03.2020	13.04.2020	8.339	516.9	22.97
3	16.03.2020	13.04.2020	8.415	489.3	21.75

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15.04.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Nandhi Enterprises,** #1504, 4th C Main, 2nd Stage, Mahalakshmipuram, Bangalore.
* Name of the work	:	Improvements to roads and drains Jodidara Narasimhaiah Layout (Gowdike hola) in Bagalagunte Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/412/2019-20 Dated : 10.03.2020
* Sample ID	:	RCC Drain Side Wall Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	15.04.2020
Report Issue Date	:	15.04.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.03.2020	15.04.2020	8.293	474.5	21.09
2	18.03.2020	15.04.2020	8.338	484.6	21.54
3	18.03.2020	15.04.2020	8.358	504.9	22.44

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15.04.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Agency	:	**M/s. Nandhi Enterprises,** #1504, 4th C Main, 2nd Stage, Mahalakshmipuram, Bangalore.
* Name of the work	:	Improvements to roads and drains Jodidara Narasimhaiah Layout (Gowdike hola) in Bagalagunte Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/412/2019-20 Dated : 10.03.2020
* Sample ID	:	RCC Drain Side Wall Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	15.04.2020
Report Issue Date	:	15.04.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.03.2020	15.04.2020	8.335	480.6	21.36
2	18.03.2020	15.04.2020	8.498	504.5	22.42
3	18.03.2020	15.04.2020	8.228	512.9	22.80

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No. CTCE/BBMP/NE/W.No.14/CSR-57/Precast Slab/2019-20

26.03.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Nandhi Enterprises,** #1504, 4th C Main, 2nd Stage, Mahalakshmipuram, Bangalore.
* Name of work	:	Improvements to roads and drains Jodidara Narasimhaiah Layout (Gowdike hola) in Bagalagunte Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/412/2019-20 Dated : 10.03.2020
* Sample ID	:	Precast Slab (100mm thick)
* Grade of Concrete	:	M_{20}
Test Method As Per	:	IS - 516 (Part-4) : 2018
Sample Received on	:	24.03.2020
Date of Testing	:	26.03.2020
Report Issue Date	:	26.03.2020

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	79.00	0.390	2514.25	1.58	0.955	29.60	15.08	16.28	17.05	21.32
2	50.00	80.00	0.399	2540.11	1.60	0.957	30.20	15.38	16.61	17.36	21.70
3	50.00	81.00	0.401	2521.33	1.62	0.959	31.25	15.92	17.19	17.92	22.41

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18.04.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Nandhi Enterprises,** #1504, 4th C Main, 2nd Stage, Mahalakshmipuram, Bangalore.
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* Reference	:	BBMP/DZ/AEE/TDSD/PR/412/2019-20 Dated : 10.03.2020
* Sample ID	:	Road Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{30}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	18.04.2020
Report Issue Date	:	18.04.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.03.2020	18.04.2020	8.215	715.6	31.80
2	21.03.2020	18.04.2020	8.356	724.9	32.22
3	21.03.2020	18.04.2020	8.359	734.3	32.64

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* Reference	:	BBMP/DZ/AEE/TDSD/PR/412/2019-20 Dated : 10.03.2020
* Sample ID	:	Road Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{30}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	18.04.2020
Report Issue Date	:	18.04.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.03.2020	18.04.2020	8.289	719.9	32.00
2	21.03.2020	18.04.2020	8.378	735.4	32.68
3	21.03.2020	18.04.2020	8.445	745.9	33.15

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18.04.2020

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* Customer	:	**Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Nandhi Enterprises,** #1504, 4th C Main, 2nd Stage, Mahalakshmipuram, Bangalore.
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* Sample ID	:	Road Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{30}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	18.04.2020
Report Issue Date	:	18.04.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.03.2020	18.04.2020	8.090	710.5	31.58
2	21.03.2020	18.04.2020	8.119	721.8	32.08
3	21.03.2020	18.04.2020	8.229	726.6	32.29

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

Lab No.: CTCE/BBMP/NE/W.No.14/CSR-57/Cube/2019-20

Certificate No.: TC-2317

18.04.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Nandhi Enterprises,** #1504, 4th C Main, 2nd Stage, Mahalakshmipuram, Bangalore.
* Name of the work	:	Improvements to roads and drains Jodidara Narasimhaiah Layout (Gowdike hola) in Bagalagunte Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/412/2019-20 Dated : 10.03.2020
* Sample ID	:	Road Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{30}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	18.04.2020
Report Issue Date	:	18.04.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.03.2020	18.04.2020	8.115	719.6	31.98
2	21.03.2020	18.04.2020	8.226	728.4	32.37
3	21.03.2020	18.04.2020	8.350	730.8	32.48

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

****

M/s. Civil-Tech Consultants & Engineers

Authorised Signatory

Executive Engineer
T. Dasarahalli Sub Division
Bagalagunte, BBMP
Bangalore-560073

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

Certificate No.: TC-2377

Job No.: CTCE/BBMP/NE/W.No.14/CSR-57/Cube/2019-20

18.04.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Nandhi Enterprises,** #1504, 4th C Main, 2nd Stage, Mahalakshmipuram, Bangalore.
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Sample Received on	:	18.04.2020
Report Issue Date	:	18.04.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.03.2020	18.04.2020	8.115	719.5	31.98
2	21.03.2020	18.04.2020	8.290	730.8	32.48
3	21.03.2020	18.04.2020	8.329	728.9	32.40

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

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